

### What is claimed is:

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- A queue scheduler that distributes a partition worth of bandwidth to a plurality of queues according to a weight assigned to each of said queues, said plurality of queues arranged from a highest priority to a lowest priority, said queues serviced by said scheduler until each of said corresponding weights is consumed for each queue, and wherein higher priority queues are serviced before lower priority queues.

- a) dividing a total amount of data, based upon an individual weight assigned to each of a plurality of queues, an amount of data that each of said queues may service;
- b) servicing one or more populated queues, each of said servicing of a populated queue continuing until said populated queue is no longer populated or said amount of data determined for said populated queue has been released; and
- c) servicing one or more of said queues than remain populated, if any, until said total amount of data has been released from all of said queues in combination including said servicing of said populated queues.